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Sequence Listing could not be accepted.

If you need help call the Patent Electronic Business Center at (866) 217-9197 (toll free).

Reviewer: Anne Corrigan

Timestamp: [year=2010; month=12; day=9; hr=10; min=34; sec=42; ms=412;]

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Reviewer Comments:

<210> 9

<211> 17

<212> PRT

<213> Artificial

<220>

<223> synthetic SS1 inactive control peptide

<220>

<221> peptide

<222> (1)..(17)

<400> 9

Gly Asp Arg Val Leu Ser Arg Leu His Ser Val Arg Glu Arg Ile Gly
1 5 10 15

Lys

Regarding the above "<220>-<222>" section; since it is obvious that this is a peptide sequence, is there any additional information that you'd like to include about this particular sequence? If so, please add a "<223>" numeric identifier, and the additional information. If not, the <220>-<222> section is not necessary.

<210> 25

<211> 20

<212> PRT

<213> Artificial sequence

<220>

<223> Consensus sequence of Synthetic Susy and ARP sequences

(only the errored portions are shown below)

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<221> VARIANT

<222> (9)..(9)

<223> X= Ile or Asp

<220>

<221> VARIANT

<222> (9)..(9)

<223> X= Ile or Asp or Asn

<220>

<221> VARIANT

<222> (16)..(16)

<223> X= His-His-Thr-Phe

<220>

<221> VARIANT

<222> (16)..(16)

<223> X= His or none

<400> 25

Glu Xaa Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp Xaa
1 5 10 15

Xaa Xaa Xaa Xaa

20

Several errors above: 1) since the second <220>-<223> section describing the "Xaa" at location 9 indicates more amino acids, please remove the first <220>-<223> section with "X= Ile or Asp"; 2) the <220>-<223> sections describing the "Xaa" at location 16: the first <220>-<223> section indicates "X= His-His-Thr-Phe". This is invalid, since an "Xaa" can only indicate a single amino acid. Please combine the second

<220>-<223> section describing the "Xaa" at location 16 with the first
<220>-<223> section; do not show two <220>-<223> sections for the same
location.

Application No: 10576757 Version No: 5.0

Input Set:

Output Set:

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Finished: 2010-12-01 19:29:00.773
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Total Errors: 0
No. of SeqIDs Defined: 30
Actual SeqID Count: 30

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W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

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Total Errors: 0
No. of SeqIDs Defined: 30
Actual SeqID Count: 30

Error code	Error Description
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SEQUENCE LISTING

<110> Winter Sederoff, Heike
Huber, Steven C
Larabell, Carolyn A

<120> SYNTHETIC PEPTIDES THAT CAUSE F-ACTIN BUNDLING AND BLOCK ACTIN DEPOLYMERIZATION

<130> JIB-1571

<140> 10576757

<141> 2010-12-01

<150> US 60/513,275

<151> 2003-10-20

<160> 30

<170> PatentIn version 3.5

<210> 1

<211> 15

<212> PRT

<213> Artificial

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<223> synthetic consensus active Zea mays Sucrose Synthase (SuSy)
peptide

<400> 1

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<211> 15

<212> PRT

<213> Artificial

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<223> synthetic peptide derived from Zea mays SuSyl protein 367-381

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<210> 3

<211> 15

<212> PRT

<213> Artificial

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<223> synthetic peptide derived from Zea mays SuSy2 protein 357-389

<400> 3

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<211> 15

<212> PRT

<213> Artificial

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<210> 5

<211> 15

<212> PRT

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<223> synthetic peptide derived from Drosophila melanogaster Actin 2
protein and Homo sapiens beta and gamma Actin proteins

<400> 5

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1 5 10 15

<210> 6

<211> 15

<212> PRT

<213> Artificial

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<223> synthetic peptide derived from Drosophila melanogaster Actin 3,
5, and 6 proteins and Homo sapiens alpha Actin protein

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1 5 10 15

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<211> 15

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<223> synthetic peptide derived from Drosophila melanogaster ARP1

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<210> 8

<211> 15

<212> PRT

<213> Artificial

<220>

<223> synthetic peptide derived from Drosophila melanogaster ARP2

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<210> 9

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<212> PRT

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<222> (1)..(17)

<400> 9

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Lys

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<211> 18

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<223> SS2 active peptide based on Zea mays SuSy 377-392

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Gly Ile Val Arg Lys Trp Ile Ser Arg Phe Glu Val Trp Pro Tyr Leu

1 5

10

15

Lys Lys

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<400> 11

Ile Leu Arg Val Pro Phe Arg Thr Glu Asn Gly Ile Val Arg Lys
1 5 10 15

<210> 12
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<400> 12

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<210> 13
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<223> replaced Tryptophan residue with Alanines

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<223> replaced Tryptophan residue with Alanine

<400> 13

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1 5

10

15

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<400> 14

Ser Arg Phe Glu Val Trp Pro Tyr Leu

1 5

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Gly Pro Thr Leu Lys Arg Thr Ala Ser Thr Ala Phe Met Asn Thr Thr
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Ser Lys Lys

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peptide

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1 5

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Arg Arg Ile Ser Ser Val Glu Asp Lys Lys

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consensus sequence

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1 5 10 15

His Thr Phe Tyr

20

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<211> 15

<212> PRT

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<223> synthetic peptide derived from Homo sapiens ARP1 protein

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Glu His Gly Val Val Arg Asp Trp Asn Asp Met Glu Arg Ile Trp

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<210> 21

<211> 15

<212> PRT
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<220>
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1 5 10 15

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synthetic peptide

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<210> 24
<211> 20
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<220>
<223> SS synthetic peptide C

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Tyr Leu Lys Lys
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1           5                  10                   15

Xaa Xaa Xaa Xaa
20

<210> 26
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<223> Motif for a synthetic peptide which causes actin bundling and
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<223> X = any amino acid

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<400> 26

Glu Xaa Gly Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp
1 5 10 15

<210> 27
<211> 15
<212> PRT
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<220>
<223> Motif for a synthetic peptide that causes actin bundling and
inhibits actin depolymerization

<220>
<221> VARIANT
<222> (2)..(2)
<223> X= Lys, Arg, or His

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<223> X= Ala, Val, Leu, Ile, Phe, Trp, Pro, or Met

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<220>
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<223> X= any amino acid

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<223> X= Ala, Val, Leu, Ile, Phe, Trp, Pro, or Met

<400> 27

Glu Xaa Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Xaa Trp
1 5 10 15

<210> 28
<211> 16
<212> PRT
<213> Artificial Sequence

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<220>
<221> VARIANT
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<223> X = Arg, Lys, Asn, or Thr

<220>
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<223> X = Arg, Lys, Asn, or Asp

<220>
<221> VARIANT
<222> (7)..(7)
<223> X = Ile, Asp, Asn, or Glu

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<222> (8)..(8)
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<223> X = Arg, Met, or Ala

<220>

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<222> (10) .. (10)
<223> X = Phe, or Glu

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<223> X =Asp, Glu, Lys, Arg, or His

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<223> X =Pro, or His

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<222> (15) .. (15)
<223> X =Tyr, or His

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<221> VARIANT
<222> (16) .. (16)
<223> X =Leu, or Thr

<400> 28

Gly Ile Xaa Xaa Xaa Trp Xaa Xaa Xaa Xaa Xaa Trp Xaa Xaa Xaa
1 5 10 15

<210> 29
<211> 13
<212> PRT
<213> Artificial Sequence

<220>
<223> Formula (II) for synthetic active peptides

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<222> (4) .. (4)
<223> X = Lys, Arg, or His

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<223> X = any amino acid

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<222> (7)..(11)

<223> X = any amino acid

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<221> VARIANT

<222> (12)..(12)

<223> X = Ala, Val, Leu, Ile, Phe, Trp, Pro, or Met

<400> 29

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<210> 30

<211> 7

<212> PRT

<213> Artificial sequence

<220>

<223> SS2 and SS12 subsequence necessary for peptide activity

<400> 30

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1 5